

Cross Hair User Manual

V3.4

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Chapter 1: Introduction: What is Cross Hair

Cross Hair aims to provide the best mouse and keyboard control solution for all game consoles (such as PS4, PS3, XBOX ONE, XBOX 360 etc), and the freedom to choose between the keyboard, mouse, joystick, and other controllers.



For beginners, Cross Hair can give you a smooth and easy experience while playing games using your own keyboard and mouse. On the contrary, a controller for aiming in FPS(First-Person Shooting) games is really troublesome.

For advanced users, it lets you enjoy the game as you wish with whatever hardware you

like: the gaming-grade keyboard and mouse or joystick or preferred controller.

Cross Hair has 4 working modes, which you should know.

●**PLAY MODE:** When connecting to game console, controller, keyboard and mouse are ready, its LOGO will be a breathing color, and then you can play your game.

●**PC MODE:** When connecting to PC and no USB device plugged into it, its LOGO will be white, then it can be configured on PC by using Cross Hair Manager. Meanwhile you can upgrade firmware and restore factory configuration in this mode.

●**CONFIG MODE:** Any time while playing a game (in PLAY MODE), just press SHARE+OPTIONS (PS4 platform) keys on your controller to enter this mode and the LOGO's light will be turned off in this mode. Then you can change settings and get instant feed back.

●**REPAIR MODE:** Hold down the button, then plugging Cross Hair into your PC, when the LOGO is green, you can then release the button, and a stable green light means **REPAIR MODE**. In this mode, Cross Hair's firmware and configurations can be repaired.

MODE	Sound on start	Color	Function	Attached Device
PLAY MODE	1 beep	Breathing color	Play games	Controller, KB, MS
PC MODE	2 beeps	White	Configure and upgrade	NO
CONFIG MODE	3 beeps	Black	Configure in game	Controller, KB, MS
REPAIR MODE	4 beeps	Green	Repair firmware	NO

Please refer to **chapter 2.4** for **CONFIG MODE** details and **chapter 4** for **REPAIR MODE** details.

Color and Sound:

Mode	COLOR	BEEP	Function
PLAY MODE	Breathing color	As configured	
CONFIG MODE	Black		
	flash red	Higher pitch beep	HIP ADD
	flash red	Lower pitch beep	HIP SUB
	flash green	Higher pitch beep	ADS ADD
	flash green	Lower pitch beep	ADS SUB
	flash blue	Normal beep	Key mapping

1.1 Advantages

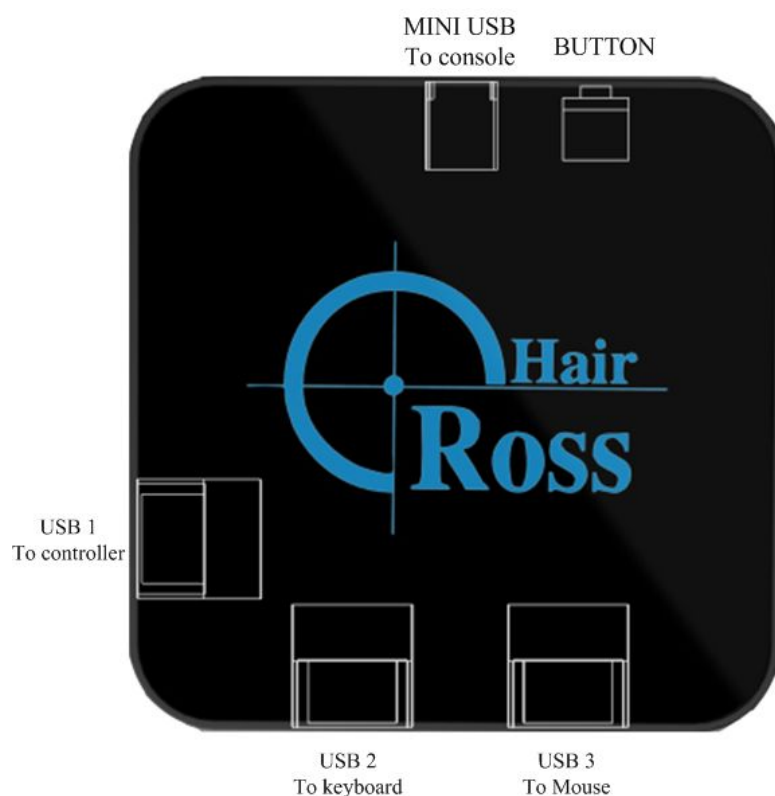
- Support all platforms: PS4/PS3/ XBOX ONE/XBOX 360
- Mice, Keyboards, Joysticks compatibility
- Cross platform controller usage (All controllers on any console)
- Intelligent Engine (best mouse precision, 1:1 movement in game)
- Most of the settings can be adjusted on the fly
- Xbox headsets supported
- Firmware in field upgrade
- Active community online
- Seamless aluminum enclosure

- Color and sound indication (clear and convenient)

1.2 Technical Specifications

Outline	75*75*22mm	
Net Weight	105g	
Platforms	PS4/PS3/XBOX ONE/XBOX 360	
Configuration	16 configurations, user defined	
Color	Black	
PORT	3 USB ports	For controller, keyboard and mouse
	1 MINI USB device port	Connecting to game console
BUTTON		Firmware repair
BEEPER	Internal beeper	Sound indication
Temperature	-10~50℃ (14~122°F)	
Humidity	Below 90%	

1.3 To know Cross Hair



MINU USB: Connect to game console.

USB1: Connect to the genuine official wired controller shipped with game console. As for wireless controller, just connect it with suitable USB cable to this USB port. The exception is that Xbox 360 requires a genuine wired Xbox 360 controller.

USB2: Connect to your keyboard, joystick or other controller.

USB2: Connect to your mouse.

BUTTON: Firmware reparation.

LOGO LED: Status indication.

Internal Beeper: Status indication. You do not need to look at Cross Hair and will be informed of meaning based on the sound.

1.4 Connections (PLAY MODE)



- Firstly, connect controller(USB PORT1) and keyboard and mouse(USB PORT2-3) to Cross Hair, then, connect Cross Hair to console.

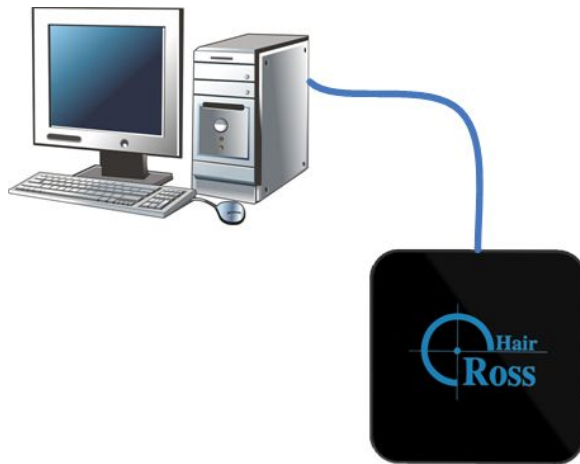
USB PORT	DEVICE TO BE CONNECTED
USB 1	Official wired controller
USB 2	Keyboard or joystick or other controller
USB 3	Mouse

Please refer to **Chapter 3.2** for more connection options.

Chapter 2: Setting Up Cross Hair

2.1 Simple set up steps

2.1.1 Step 1: Connect to PC (PC MODE)



- Please connect your Cross Hair according to the figure above, using the USB cable included in the package. **Make sure that there is no controller, keyboard, mouse, joystick or anything else plugged into it.** And when Cross Hair LOGO is white, it enters into **PC MODE**, and can then be configured on PC.

2.1.2 Step 2: Run Cross Hair Manager (Windows OS only)

Run Cross Hair Manager which can be downloaded from <http://www.reasnow.com>

Please choose the latest version.



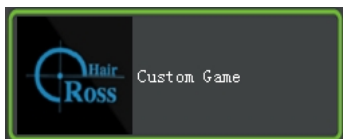
2.1.3 Step 3: Choosing console and game



- Choose the game console you are going to use by clicking on the right-arrow button



- If there is already a configuration of the game you want to play, choose the configuration and click on the “Edit” button, this is the fastest way.
- If there is no existing suitable configuration, just click on the “New” button to add a new configuration. Make any changes as you see fit.
- If the game you want to play do not exist, just choose the “custom game”. This setting has the highest possibility of working, as most games are not varied very much from each other.



- **Remember to mark the configuration most frequently used as “Start Up”. Click the configuration first then click on the “Start Up” button.** Then this configuration will be activated automatically every time when Cross Hair is powered on.

2.1.4 Step 4: Edit Configuration

For convenience, you can use the default settings, but should remember the keys' mapping, while advanced users can choose their favorite settings. For details of every setting, please refer to **chapter 2.2**



2.1.5 Step 5: Save and Exit

You should save the configuration first, before exiting Manager, and after that, unplug the Cross Hair from PC.

Changes you made will not be saved in you Cross Hair until you have clicked on the “Save” button. Do not shake the USB cable, unplug it, or turn off your PC during the saving. These behaviors will damage your Cross Hair.

This is the final step before you can enjoy gaming. But if you want to know Cross Hair better, the following chapters are also very important.

2.2 Basic Settings

2.2.1 Choose platform

By clicking on the right-arrow button, you can choose from PS4/PS3/XBOX ONE/XBOX 360.

2.2.2 Save configuration

Any change made to an existing configuration or made by adding a new one has to be saved in Cross Hair by this button.

2.2.3 Edit an existing configuration

If you want to change existing configurations, you can use “Edit” button for this purpose.

2.2.4 Add a new configuration

If a new configuration is your choice, just click on the “New” button, and you can then make detailed changes.

2.2.5 Copy a configuration

If you would like to add a configuration that is similar to an existing one, you can copy a configuration and make necessary changes.

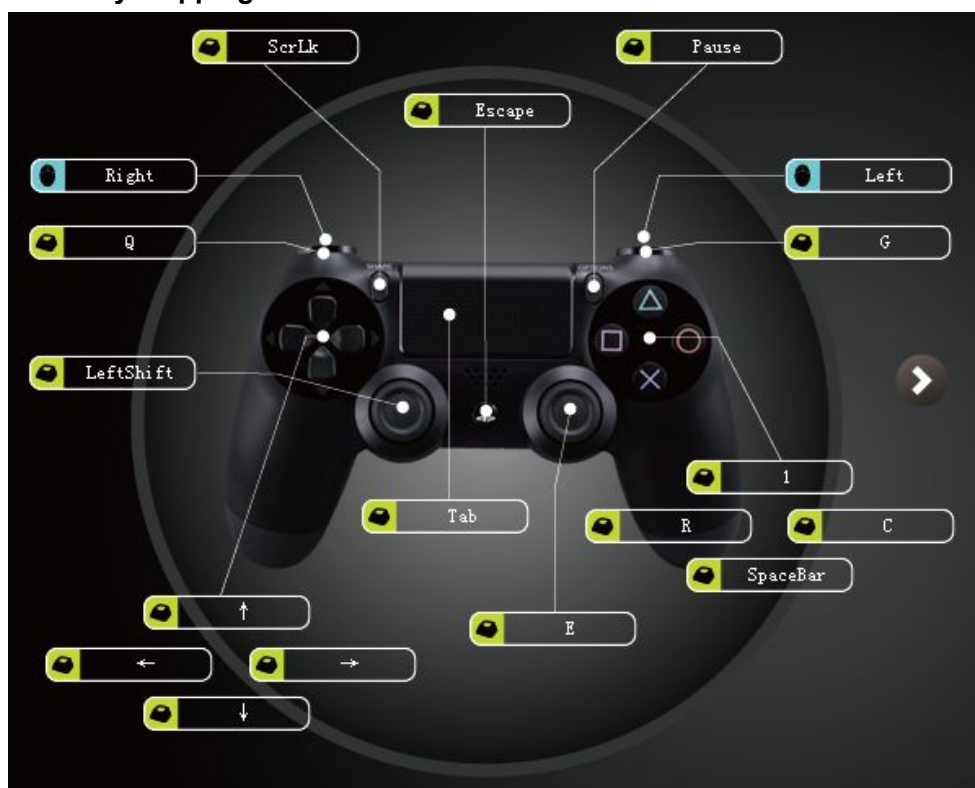
2.2.6 Delete a configuration

If you want to delete a configuration, click it first and then click on the “Delete” button.

2.2.7 Set a certain configuration as Start Up.

Select one configuration first and click on the “Start Up” button. Then this configuration will be activated automatically every time when Cross Hair is powered on.

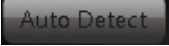

2.2.8 Key mapping



Click the mapped key icon, and you will enter into a mapping dialog as shown below.





Firstly, choose the hardware from the options of mouse, keyboard, joystick and NONE.

Secondly, use Auto Detect  or Drop-down menu , to select the key you want to use, and to substitute a certain key on controller.

Thirdly, click OK to end this mapping.

2.2.9  **Change the name you want to use in this field.**

2.2.10  **Clicking the color will change the color of LOGO.**
This color can indicate which configuration you are using.

2.2.11  **Choose the hotkey for this configuration for fast activation.**

Once the hotkey is invoked in **PLAY MODE**, this configuration will be activated instantly. Please pay attention to this function. It can not only be used to swap between different games but also to swap between different battle modes. Such as, you set up a configuration for infantry in BF4 and you also set up another configuration for tank in BF4 with different keymapping and HIP/ADS sensitivity. With this function in hand, you can swap between different battle modes instantly during your gaming.

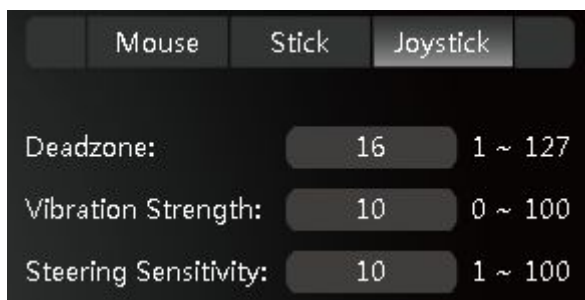
2.2.12 Stick mapping



These settings are dedicated for the original controller, the one plugged into USB port 1.

- Choose keys from keyboard or mouse or joystick to replace left and right stick.
- **Deadzone:** The deadzone here is used to adjust the sensitivity of left and right stick on the original controller, the one plugged into USB port 1. Leave it as default, if you have no trouble with the sticks on controller. A smaller value means more sensitivity, but that sometimes may also causes trouble for controlling. By default, the value is 16.

2.2.13 Joystick setting



These settings are dedicated for the third-party controller, the one plugged into USB port 2 or 3.

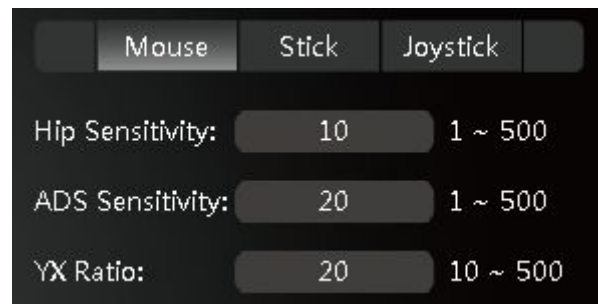
Such as: Logitech G13, Sony Move Navigation Controller, Logitech Attack3 and other controllers which are used to replace the original one.

- **Deadzone:** The dead-zone here is used to adjust the sensitivity of left and right stick on the third-party controller (Joystick), the one plugged into USB port 2 or 3. Leave it as default, if you have no trouble with that controller. A smaller value means more sensitivity, but that sometimes may also causes trouble for controlling. By default, the value is 16.
- **Vibration Strength:** A bigger value means stronger vibration, a smaller value means weaker vibration. By default, the value is 10. If it is set to 0, there will be no vibration on the third-party controller (Joystick).
- **Steering Sensitivity:** This setting is effective only in legacy mode racing game configurations, when you are using a supported steering wheel. A bigger value means the wheel is more sensitive in game. By default, the value is 10.

There is no such setting in expert mode racing game configurations. In expert mode, you do not need to change that.

And there is no such setting in general game configuration either.

2.2.14 Mouse Sensitivity



These settings are dedicated for mouse controlling.

Typically in FPS games, you will have two modes of shooting: HIP and ADS (Aim Down Sight), so you have to set them separately. If you are not familiar with these values, just leave them as default.

Please remember to set mouse's DPI and game's LOOK sensitivity to maximum first. And after these two procedures are done, if the mouse is too slow, you need to set HIP and ADS sensitivity to a bigger value. If the mouse is too fast, you need to set HIP and ADS sensitivity to a smaller value.

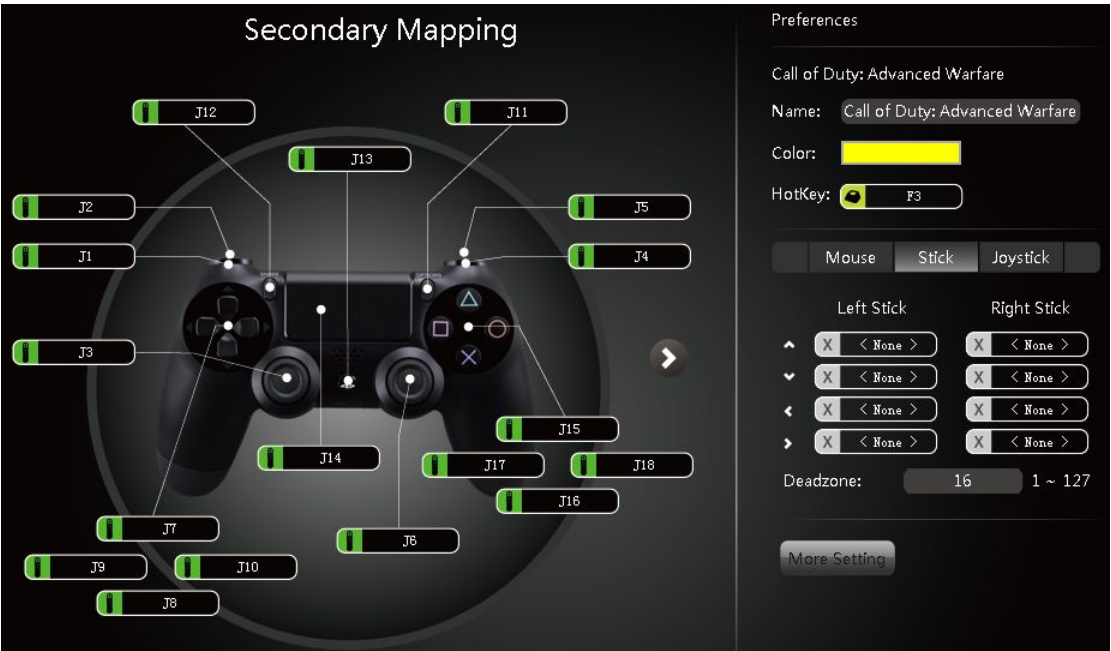
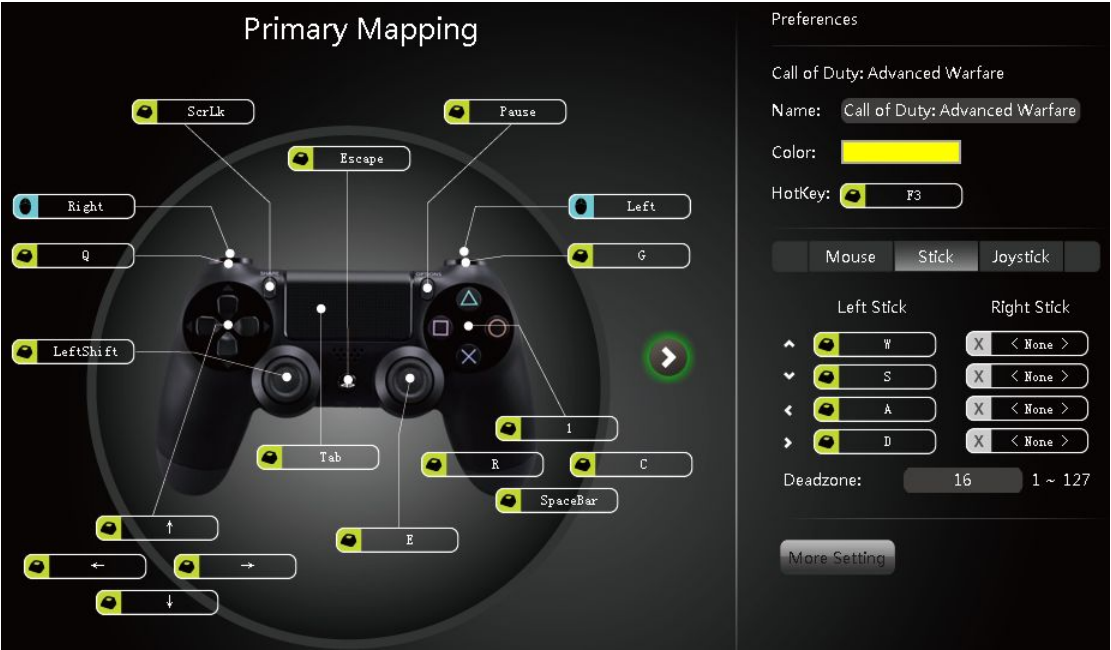
As for YX Ratio, it's the ratio of mouse's Y and X direction movement speed. Do not change it, unless you understand its meaning.

2.2.15 Primary and secondary mapping



This right-arrow button is used to switch between primary and secondary mapping. In this way, you can have two options for one key on the original controller.

As default, the secondary mapping is used for a third-party controller. You can change that to whatever you like.

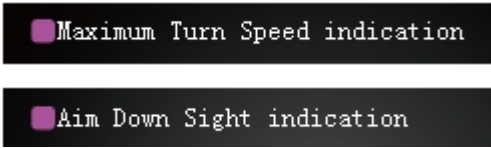


2.2.16 More settings



This button will bring you to options that are not frequently used.

2.2.17 Notification settings



Maximum Turn Speed indication:

If selected, when turn speed exceeds maximum, the LOGO will flash red twice.

Aim Down Sight indication:

If selected, when ADS is activated, the LOGO will flash green twice.

2.2.18 Flip vertical movement

☒ Flip vertical mouse movement

Once enabled, your mouse's vertical movement will be flipped.

2.2.19 Aim Down Sight toggle

☒ Aim Down Sight toggle

Once enabled, you can activate ADS firing by clicking the corresponding key, such as the right key of mouse. And clicking again on the same key will deactivate ADS firing. You do not need to hold the key all the while.

2.2.20 Key mapping mode

☒ N:1 key mapping in config mode

We provide 2 kinds of key mapping mode in **CONFIG MODE**: 1:1 mode and N:1 mode. By default, the key mapping mode in **CONFIG MODE** is 1:1 mode. If you enable this option, it will be N:1 mode.

1:1 mode: It means that one button on the original controller can be mapped into one key from keyboard or mouse or the third-party controller.

N:1 mode: It means that multiple buttons on the original controller can be mapped into one key from keyboard or mouse or the third-party controller. It can provide flexibility, but it will also cause some confusion. For if you are mapping a button on controller to a key on keyboard in **CONFIG MODE** in N:1 mode, it will not clear the original mapping of this key, the original mapping will be kept, and the new mapping will be add to the key. Once this key is pressed, it will release all the buttons' functions that are mapped to it at the same time.

This option will not take effect when you are using Cross Hair Manager to change the keymappings.

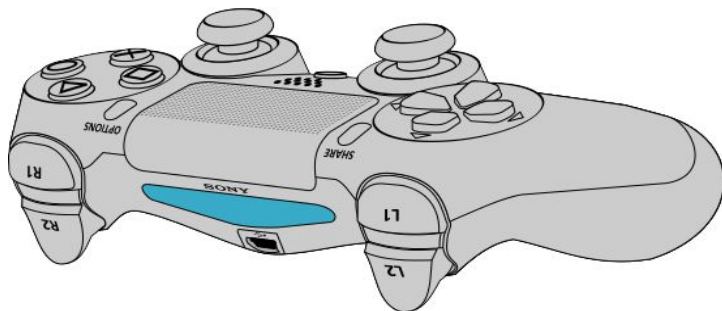
2.2.20 Custom Game options

Aim Down Sight: L2\LT
Deadzone Type: Circle

These 2 options are used only for Custom Game, do not change them in preset games.

Aim Down Sight: ADS function may be invoked by different key on controller, due to

different game and console. If you are using a Custom Game configuration, please select correct key of ADS.



Deadzone Type: If you are using a Custom Game configuration, please select correct type of Deadzone according to the game.

2.2.21 Load Behavior



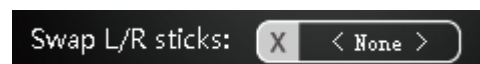
This option will change the behavior of your configuration, after it was activated by hotkey. There are three choices: Standard, Temporary Hold, and Temporary Toggle.

Standard: The configuration is activated by its hotkey and stays active.

Temporary Hold: The configuration is activated only when its hotkey is pressed and the previous configuration will be reloaded back when the hotkey is released.

Temporary Toggle: The configuration is activated after its hotkey is invoked and the previous configuration will be reloaded back when the hotkey is invoked again.

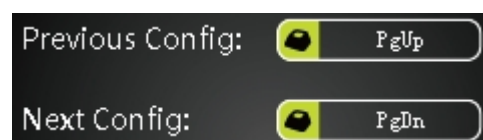
2.2.22 Swap L/R sticks



Once the key is clicked, it will swap the functions of L/R stick. Clicking it again will restore the original state.

2.3 Global Settings

2.3.1 Previous and next configuration



These keys can be alternative ways to activate a configuration instead of the hotkey.

2.4 Setting up in-game (CONFIG MODE)

We provide our users with this function for the most flexible and comfortable setting experience. Although everything of Cross Hair can be configured on PC using its Manager,

you will like setting it up in-game, for this procedure will give you instant feed back when changing the settings.

Any time in game, just press SHARE+OPTIONS (PS4 platform) keys on your controller to enter **CONFIG MODE** and the LOGO's light will be turned off in this mode.

Different platform has different keys to use.

Game Console	Controller	Keys to enter/exit CONFIG MODE
PS4	Dual Shock 4	SHARE+OPTIONS
PS3	Dual Shock 3	SELECT+START
XBOX ONE		VIEW+MENU
XBOX 360		BACK+START

In **CONFIG MODE**, you can use the controller to change HIP and ADS sensitivity as well as key mapping.

Color and Sound in CONFIG MODE:

KEY	COLOR	BEEP	Functions
D-Pad Up	flash red	Higher pitch beep	HIP ADD
D-Pad Down	flash red	Lower pitch beep	HIP SUB
D-Pad Right	flash green	Higher pitch beep	ADS ADD
D-Pad Left	flash green	Lower pitch beep	ADS SUB
Triangle/Y	flash yellow	Higher pitch beep	Vibration ADD
Cross/A	flash yellow	Lower pitch beep	Vibration SUB
Circle/B	flash blue	Higher pitch beep	Steering ADD
Square/X	flash blue	Lower pitch beep	Steering SUB
	flash blue	Normal beep	Key mapping

After changing settings to you liking, just press the combination keys again, and you will exit the **CONFIG MODE**, and return to **PLAY MODE**.



2.4.1 Adjusting HIP sensitivity (CONFIG MODE)

D-Pad Up key is for increasing HIP sensitivity. You will see a flashing red light and hear a higher pitch sound once the key is pressed.

D-Pad Down key is for decreasing HIP sensitivity. You will see a flashing red light and hear a lower pitch sound once the key is pressed.

2.4.2 Adjusting ADS sensitivity (CONFIG MODE)

D-Pad Right key is for increasing ADS sensitivity. You will see a flashing green light and hear a higher pitch sound once the key is pressed.

D-Pad Left key is for decreasing ADS sensitivity. You will see a flashing green light and hear a lower pitch sound once the key is pressed.

2.4.3 Adjusting Vibration Strength (CONFIG MODE)

Triangle/Y key is for increasing vibration strength. You will see a flashing red light and hear a higher pitch sound once the key is pressed.

Cross/A key is for decreasing vibration strength. You will see a flashing red light and hear a lower pitch sound once the key is pressed.

2.4.4 Adjusting Steering sensitivity (CONFIG MODE)

Circle/B key is for increasing steering sensitivity. You will see a flashing green light and hear a higher pitch sound once the key is pressed.

Square/X key is for decreasing steering sensitivity. You will see a flashing green light and hear a lower pitch sound once the key is pressed.

2.4.5 Mapping keys (CONFIG MODE)

In **CONFIG MODE**, to begin a key mapping, you should press the **PS** key (PS4/PS3) or **GUIDE** key (XBOX ONE/360). Then the LOGO will show flashing blue. This means you can choose one key on the controller to be mapped.

Once the key on the controller is pressed, LOGO will show a stable blue light, and then wait for the corresponding key on the keyboard, mouse, joystick, etc. After selecting your key, Cross Hair will keep flashing blue again. Then a new key mapping can be continued.

Just like the general key's mapping, if you are planning to use keys on keyboard or mouse to replace stick on controller, push the stick to its maximum on one direction (such as Up direction), LOGO will show a stable blue light, and then wait for the corresponding key on the keyboard, mouse, etc. After selecting your key, Cross Hair will keep flashing blue again. Then you can continue to map a new direction of this stick.

After mapping all the keys, you can press SHARE+OPTIONS (PS4 platform) keys on your controller to exit the **CONFIG MODE**, and end the mapping procedure.

Mapping keys in **CONFIG MODE** is recommended, as you can get instant response in-game, and all the keys can be mapped. On the contrary, in **PC MODE**, some special keys of your mouse, keyboard or joystick may not be detected due to OS's limitations.

It is especially recommended to use CONFIG MODE for mapping keys of joystick or controller.

Chapter 3: Playing Games

There are still 3 steps before playing

Step 1: Set mouse DPI to Maximum

Step 2: Set sensitivity in game to Maximum

Step 3: Change HIP/ADS sensitivity of Cross Hair according to your need

3.1 Step 1: Set mouse DPI to Maximum

If you have a configurable mouse, please follow 3.1.1 – 3.1.4.

If you have a mouse which can not be configured, just skip 3.1.1 – 3.1.4.

If your mouse is configurable but have no on-board memory in it that means your settings will be lost when the mouse is unplugged from PC, remember to set its DPI to maximum by using the DPI button on it every time you use the mouse with Cross Hair.

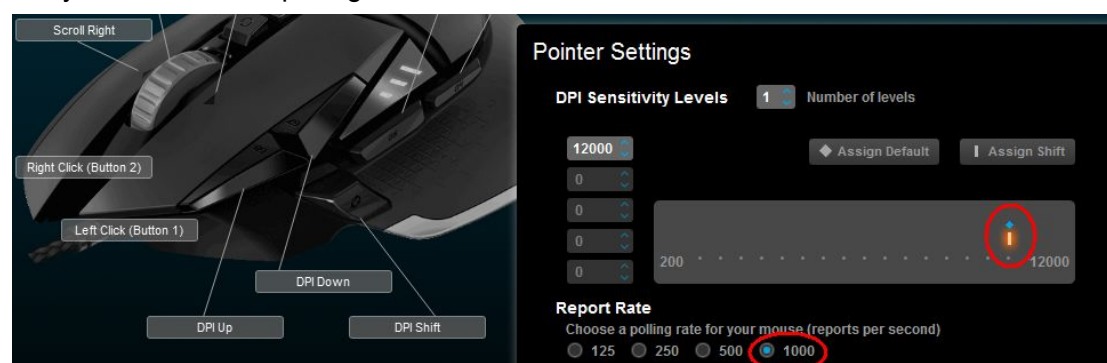
3.1.1 Mouse DPI(CPI)

Make sure the mouse you are using is configured at its highest DPI, or you should connect it to a PC, and use some software from the producer to change the DPI to maximum.

Remember high DPI can give you better experience in game.

3.1.2 Mouse Report Rate

Set your mouse USB polling rate to 500 or 1000.



3.1.3 Mouse Button Function

Buttons of some mouse can be configured. If you want to use them to replace buttons from controller, you should set them as standard keys of keyboard or mouse, do not set them as combination keys or special function keys. For example, Ctrl + C, Volume Up/Down, DPI up/down are all unacceptable.

3.1.4 Save to On-Board Memory

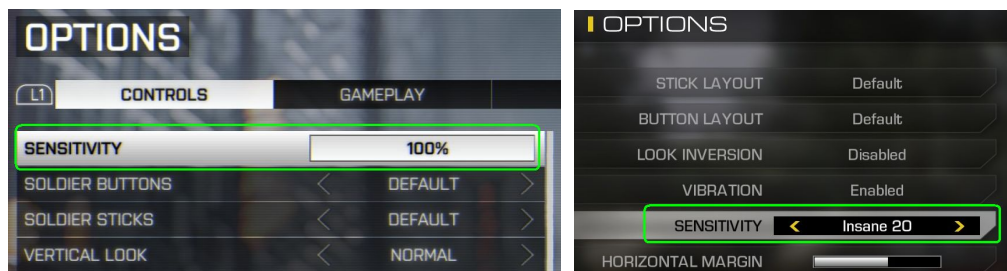
Some mice have on-board memory to store DPI and other settings, please remember to save all these in On-Board Memory.



Other mice have no on-board memory, but their DPI can be adjusted, so you need to set their DPI to maximum every time powered on.

3.2 Step 2: Set sensitivity in game to Maximum

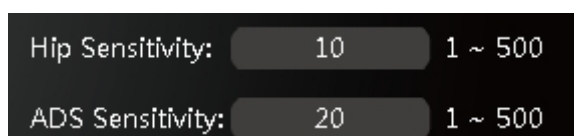
Please set the game's "SENSITIVITY" or "LOOK SENSITIVITY" to maximum in the game on game console. It may be called insane, maximum, 10, 20 or 100%.



3.3 Step 3: Change HIP/ADS sensitivity of Cross Hair according to your need

There are **2 ways** to change Cross Hair sensitivity.

WAY 1 – using PC software (Manager):



Cross Hair has 2 sensitivities : HIP Sensitivity and ADS Sensitivity

The bigger the value, the faster the mouse movement. You can change them to a suitable value, according to your mouse and game.

HIP: Shooting without aiming optics

ADS: Shooting with aiming optics

ADS sensitivity is normally bigger than HIP.



YX Ratio:

It's the ratio of mouse's speed in Y and X directions. Do not change it, unless you understand its meaning.

WAY 2 – using controller in Config Mode:



1. Any time in game, just press SHARE+OPTIONS (PS4 platform) keys on your controller to enter **CONFIG MODE** and the LOGO's light will be turned off in this mode.
2. Use the D-pad keys on controller to change HIP and ADS sensitivity of Cross Hair.
3. After changing settings to you liking, just press the combination keys again, and you will exit the **CONFIG MODE**, and return to **PLAY MODE**.

Other important things:

● Battery of controller or mouse

Make sure your controller is fully charged and the mouse is also fully charged, if there is battery in it.

● Controller's layout in game

Your controller's layout should be set as default, and change of these will confuse Cross Hair.

3.4 Ways to Use Cross Hair

Connect all devices (controller/keyboard/mouse) to Cross Hair first, and then connect Cross Hair to game console.

1. Use a keyboard and mouse instead of controller



2. Use a joystick and mouse instead of controller



3. Use another controller instead of the original one (Cross platform controller usage)



The controller connected to USB 1 should always be the original one shipped with the console.

Only official controllers are tested and recommended!

Supported Controller:

Game Console	DS4	DS3/ Sixaxis	XBOX ONE CONTROLLER	XBOX 360 CONTROLLER
PS4		•	•	•
PS3	•		•	•
XBOX ONE	•	•		•
XBOX 360	•	•	•	

PS1. Connect all devices to Cross Hair first, and then connect Cross Hair to game console. That is the procedure we recommend. Change your connection only when Cross Hair is powered off.

PS2. Make sure to logout the user on your game console before connect Cross Hair to it. Or connect all the devices before game console is powered on.

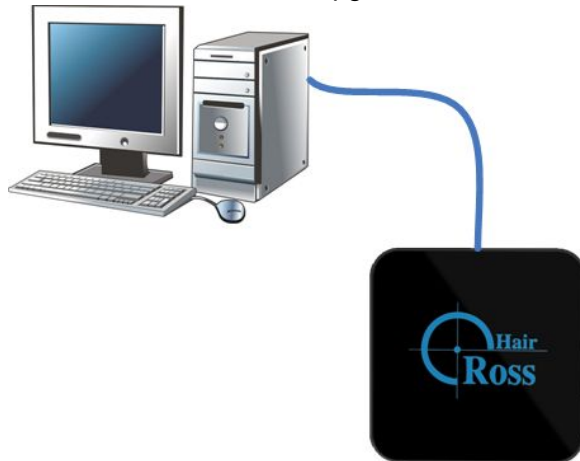
PS3. It's better to turn off your controller on game console before connecting it to Cross Hair.

PS4. Wireless controller of XBOX 360 can not be used as wired controller with a USB cable connected on it. For the USB port on this controller can only be used for charging, no data lines in this port. While all other wireless controllers can be used as wired ones with a USB cable connected, such as controllers of PS4, PS3, XBOX ONE.

Chapter 4: Upgrade and Restoration

4.1 Upgrade firmware and restore configuration

Please connect your Cross Hair according to the figure below, using the USB cable included in the package. **Make sure there is no controller, keyboard, mouse, joystick or anything else plugged into it.** When the Cross Hair LOGO is white, it enters into **PC MODE**, and can then be upgraded and restored on PC.



Click the icon at the bottom right corner of the screen.





Upgrade Firmware: Upgrade firmware to a newer version or repair firmware errors. Your configurations will not be changed after the operation.

Restore Factory Configuration: Restore configuration back to factory default. All your own changes will be lost.

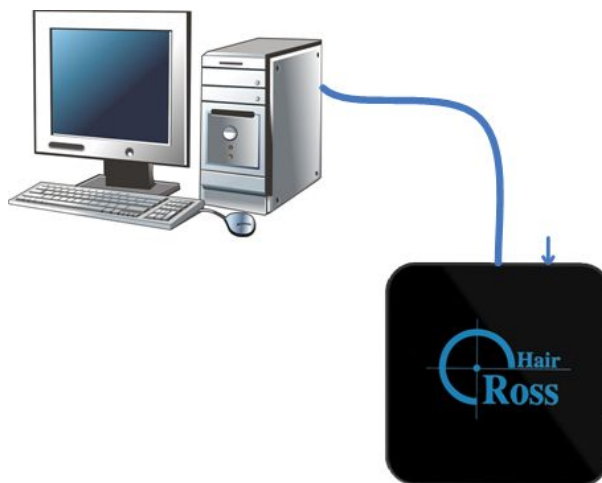
4.2 Repair firmware in REPAIR MODE

If Cross Hair works improperly, you may try repairing its firmware as stated below.

Hold down the hidden button with a toothpick or the tip of a pen, and then plug Cross Hair into your PC. When the LOGO is green, you can release the button. A stable green LOGO means your Cross Hair is in **REPAIR MODE**. In this mode, it can be repaired. The procedure is the same as firmware upgrade and restore factory configuration.

Please try both upgrading firmware and restoring factory configuration, so you will get a completely clean system.

After these two procedures, most of the problems can be solved.



During upgrading or restoring, do not shake the USB cable, unplug it, or turn off your PC. These behaviors will damage your Cross Hair.